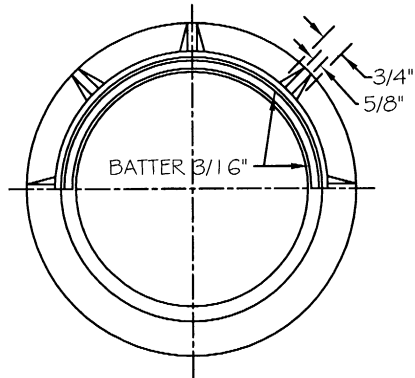


WASTEWATER SERIES

C-400 TO C-410

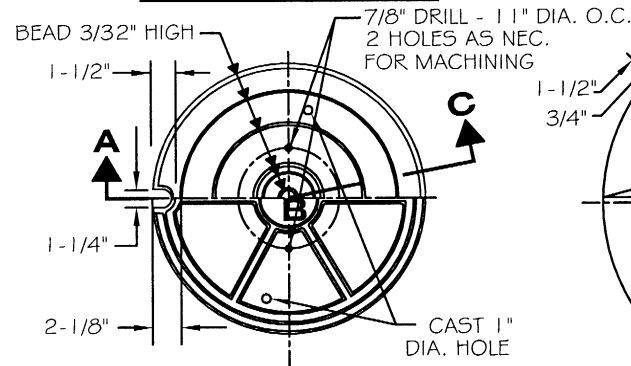
FRAME - TOP VIEW



BOTTOM VIEW

APPROX. WEIGHT-205 LBS.

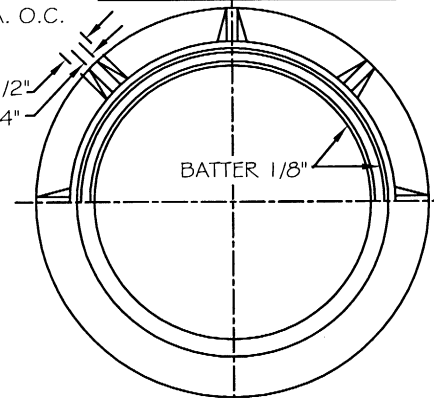
COVER - TOP VIEW



BOTTOM VIEW

APPROX. WEIGHT-200 LBS.

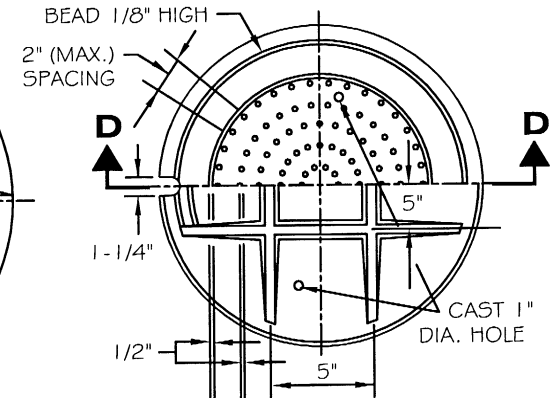
FRAME - TOP VIEW



BOTTOM VIEW

APPROX. WEIGHT-224 LBS.

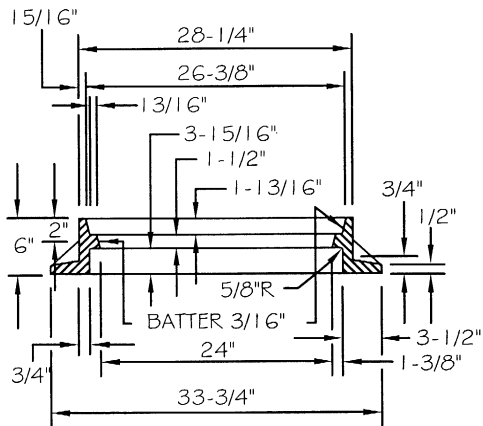
COVER - TOP VIEW



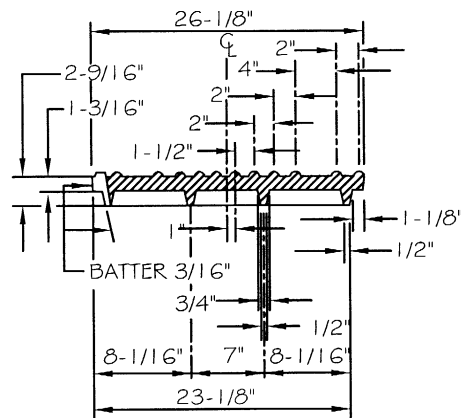
BOTTOM VIEW

APPROX. WEIGHT-324 LBS.

24" MANHOLE FRAME AND COVER

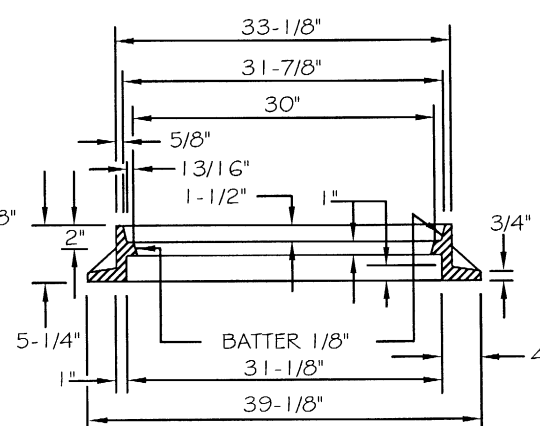


SECTION OF FRAME

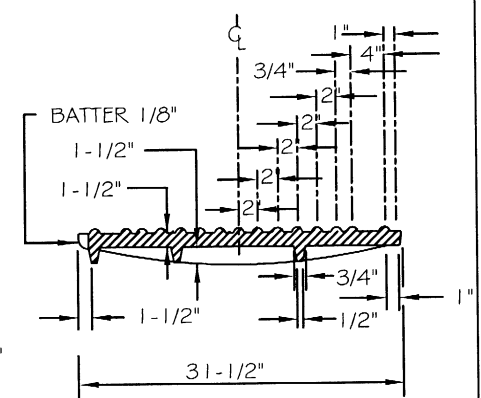


SECTION A-B-C OF COVER

30" MANHOLE FRAME AND COVER



SECTION OF FRAME



SECTION D-D OF COVER

NOTE:

1. WEIGHT OF CASTING SHALL BE NO MORE THAN 2% LESS THAN THE APPROXIMATE WEIGHT SPECIFIED. CASTING SHALL CONFORM TO MAG STANDARD SPECIFICATIONS 787.
2. SEE C-400 PAGE 2 FOR MANHOLE COVER DETAIL.

C-400
REPLACES
99



CITY OF
CHANDLER
STANDARD
DETAIL

**24" AND 30" MANHOLE
FRAME AND COVER**

APPROVED: *Elizabeth W. Smith*
CITY ENGINEER
DATE: *January 11, 2002*

DETAIL NO.
C-400
PAGE 1 OF 2

COVER - TOP VIEW
SANITARY SEWER



CAST 1"
DIA. HOLE

COVER - TOP VIEW
STORM SEWER



CAST 1"
DIA. HOLE

NOTE:

LETTERING ON MANHOLE COVER TO CONTAIN UTILITY FOR WHICH MANHOLE IS NEEDED, ("CHANDLER SANITARY SEWER" OR, "CHANDLER STORM SEWER"), OR AS DIRECTED. THE TOTAL WIDTH OF INDIVIDUAL LETTERS TO BE SUCH THAT LETTERS AND WORDS ARE EQUALLY SPACED AND BALANCED TO FORM A COMPLETE CIRCLE WITH SPACERS BEFORE AND AFTER THE WORD. LETTERS TO BE 1" IN HEIGHT AND RAISED 1/8" ABOVE LEVEL OF COVER. TYPE OF LETTERS TO BE SUBMITTED FOR APPROVAL.

C-400
REPLACES
99

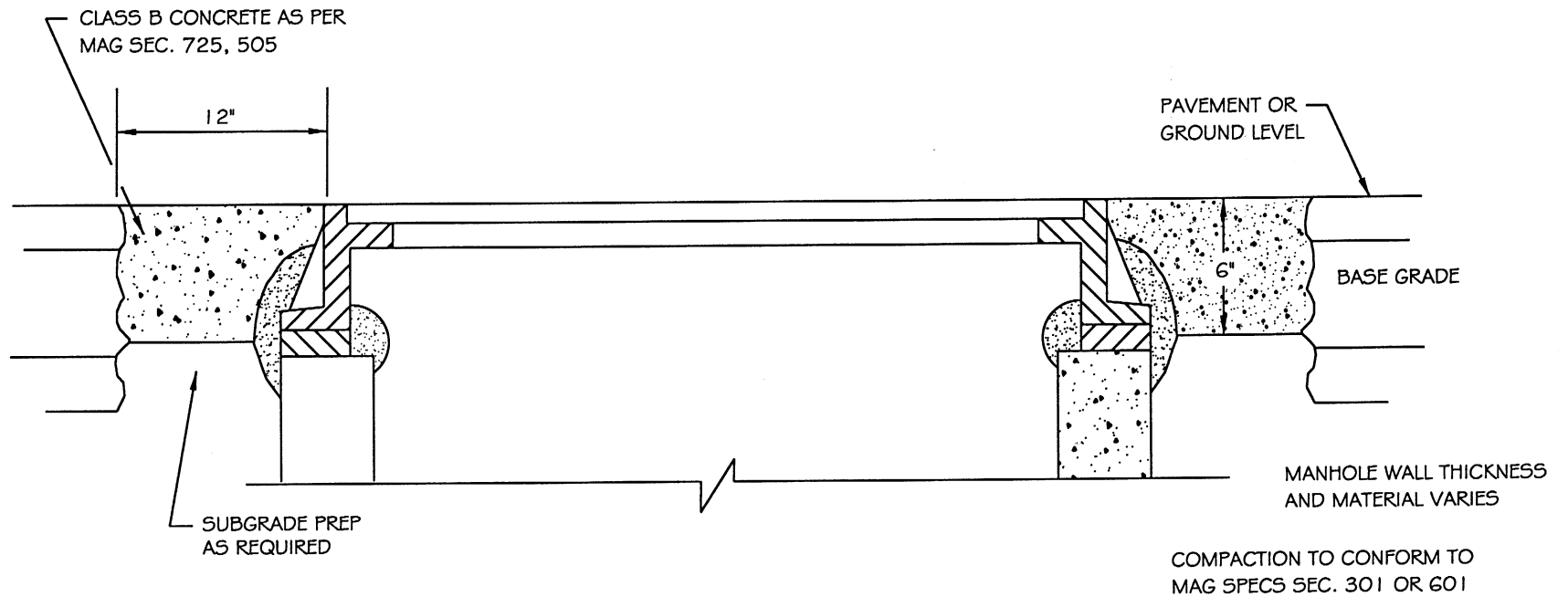


CITY OF
CHANDLER
STANDARD
DETAIL

MANHOLE COVER

APPROVED: *Elizabeth M. Smith*
CITY ENGINEER
DATE: *January 11, 2002*

DETAIL NO.
C-400
PAGE 2 OF 2



C-401
REPLACES
52C

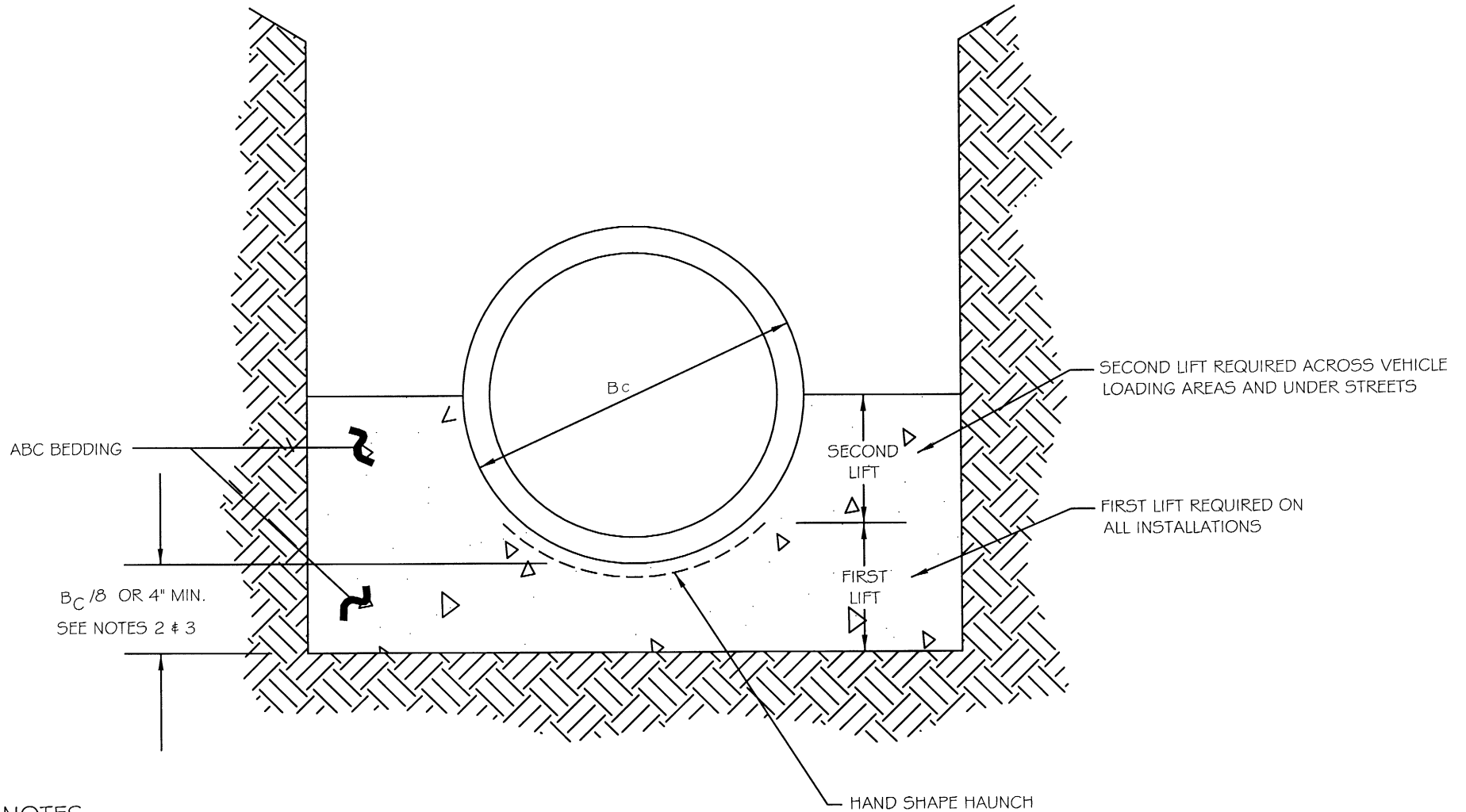


CITY OF
CHANDLER
STANDARD
DETAIL

**MANHOLE
CONCRETE COLLAR DETAIL**

APPROVED: *Bryan D. Patterson*
CITY ENGINEER
DATE: *11-19-99*

DETAIL NO.
C-401
NTS



NOTES:

1. TRENCH WIDTH IN ACCORDANCE WITH MAG STD. TABLE 601-1.
2. MINIMUM 4" FOR PIPES 12" OR SMALLER.
3. MINIMUM 6" FOR PIPES LARGER THAN 12".

C-402
REPLACES
53

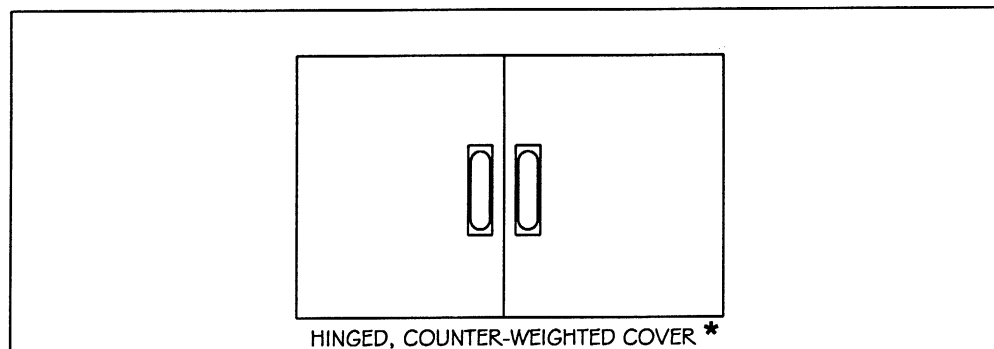


CITY OF
CHANDLER
STANDARD
DETAIL

PVC SEWER PIPE BEDDING DETAIL

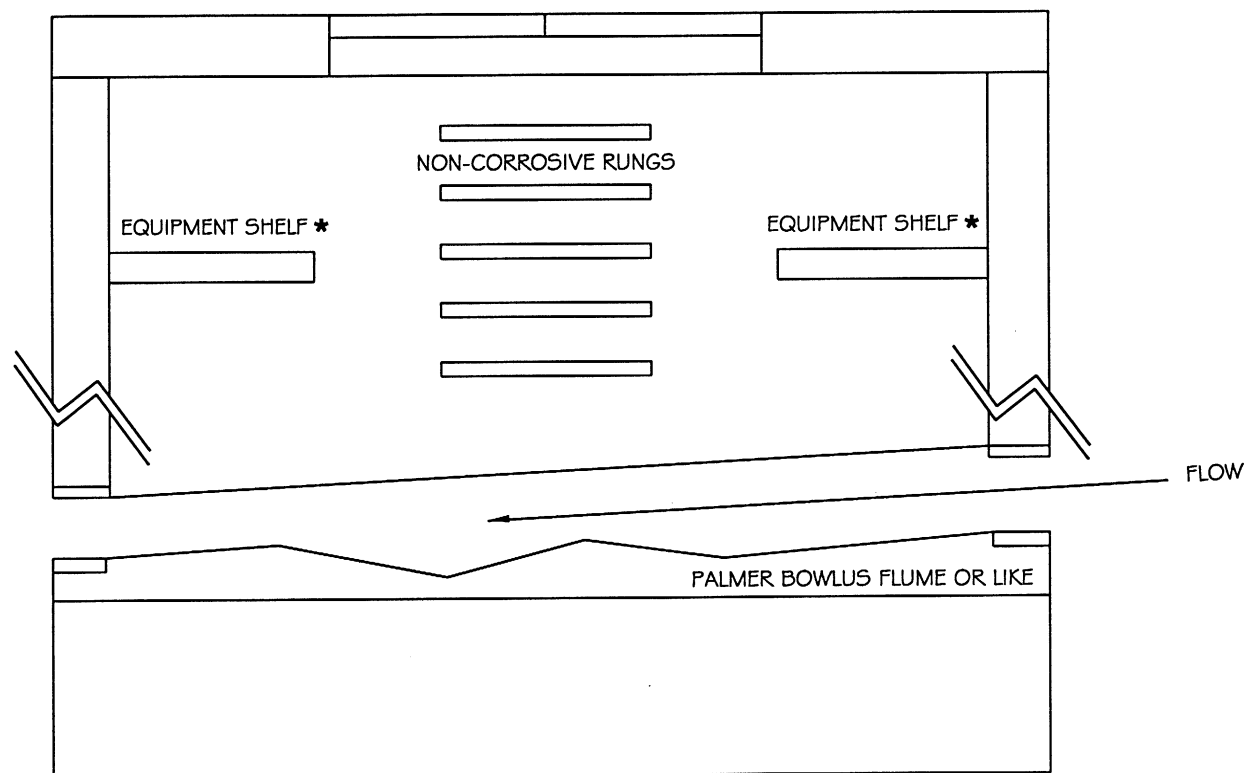
APPROVED: *Elizabeth M. [Signature]*
CITY ENGINEER
DATE: *January 11, 2002*

DETAIL NO.
C-402
NTS



HINGED, COUNTER-WEIGHTED COVER *

PRECAST CONCRETE VAULT



ALL CONSTRUCTION TO CONFORM TO MAG STANDARD
DETAIL #429 EXCEPT WHERE NOTED

MANHOLE FRAME AND COVER PER MAG STANDARD DETAIL #423
FOR TRAFFIC AREAS

DETAIL NO.
C-403
NTS

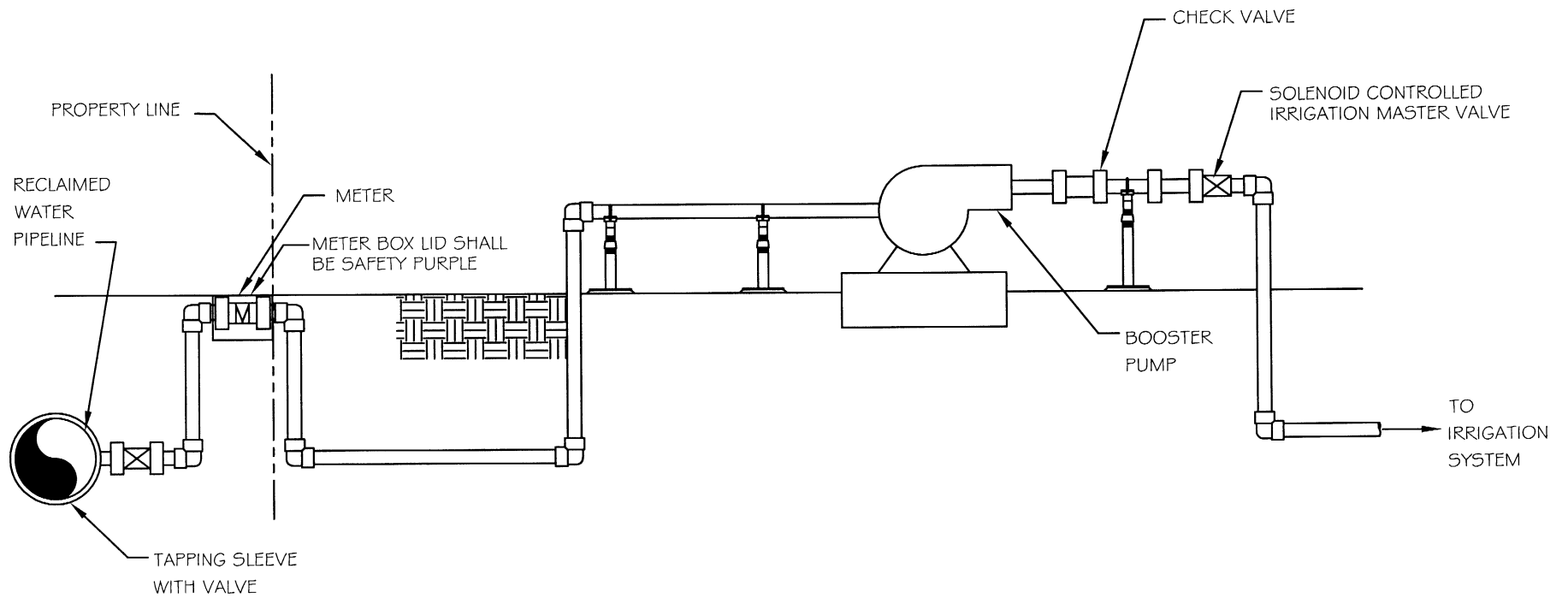


CITY OF
CHANDLER
STANDARD
DETAIL

INDUSTRIAL WASTE SAMPLING MANHOLE

APPROVED: *Bryan D. Patterson*
CITY ENGINEER
DATE: 11-19-99

DETAIL NO.
C-403
NTS



DETAIL NO.
C-404
PAGE 1 OF 2

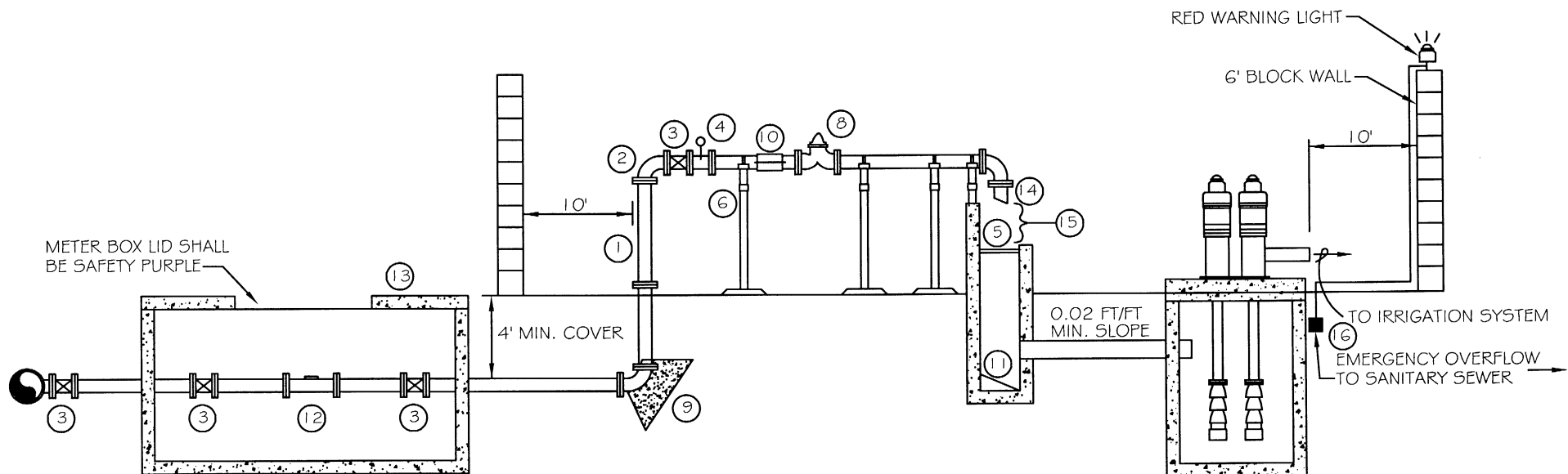


CITY OF
CHANDLER
STANDARD
DETAIL

**SMALL WATER USER (WITHOUT LAKE)
RECLAIMED WATER TURN-OUT**

APPROVED: *Elizabeth M. Smith*
CITY ENGINEER
DATE: *January 11, 2002*

DETAIL NO.
C-404
PAGE 1 OF 2



NOTES:

1. DUCTILE IRON PIPE (DIP)
2. FLANGE X FLANGE (TYP)
3. GATE VALVE
4. PIPE AIR/VACUUM RELIEF VALVE
5. METAL GRATE OVER TOP OF STANDPIPE
6. PIPE SUPPORTS BOLTED TO 6 INCH CONCRETE FOOTING EVERY 5 FEET ON CENTER (TYP)
7. PROVIDE RIGID PIPE SUPPORT AT STANDPIPE
8. CLA-VAL MODEL 131-66 OR EQUAL
9. PROVIDE THRUST BLOCK
10. DIP RESTRAINED COUPLING - (FLEX HARNESS)
11. GROUT BOTTOM TO PROVIDE POSITIVE FLOW
12. RECORDALL TURBO 2000 METER AS MANUFACTURED BY BADGER
13. UTILITY VAULT SIZED PER METER SIZE
14. DIP MITERED SPOOL PIECE
15. 2 PIPE DIAMETER AIR GAP
16. HIGH LEVEL ALARM (VISUAL WARNING LIGHT) FOR EMERGENCY OVERFLOW

GENERAL NOTES:

1. METER BOX LID TO BE PAINTED SAFETY PURPLE.
2. PROPERTY SHALL BE FENCED WITH 6 FOOT BLOCK WALL TO MATCH THE SURROUNDING WALL THEME.

DETAIL NO.
C-404
PAGE 2 OF 2

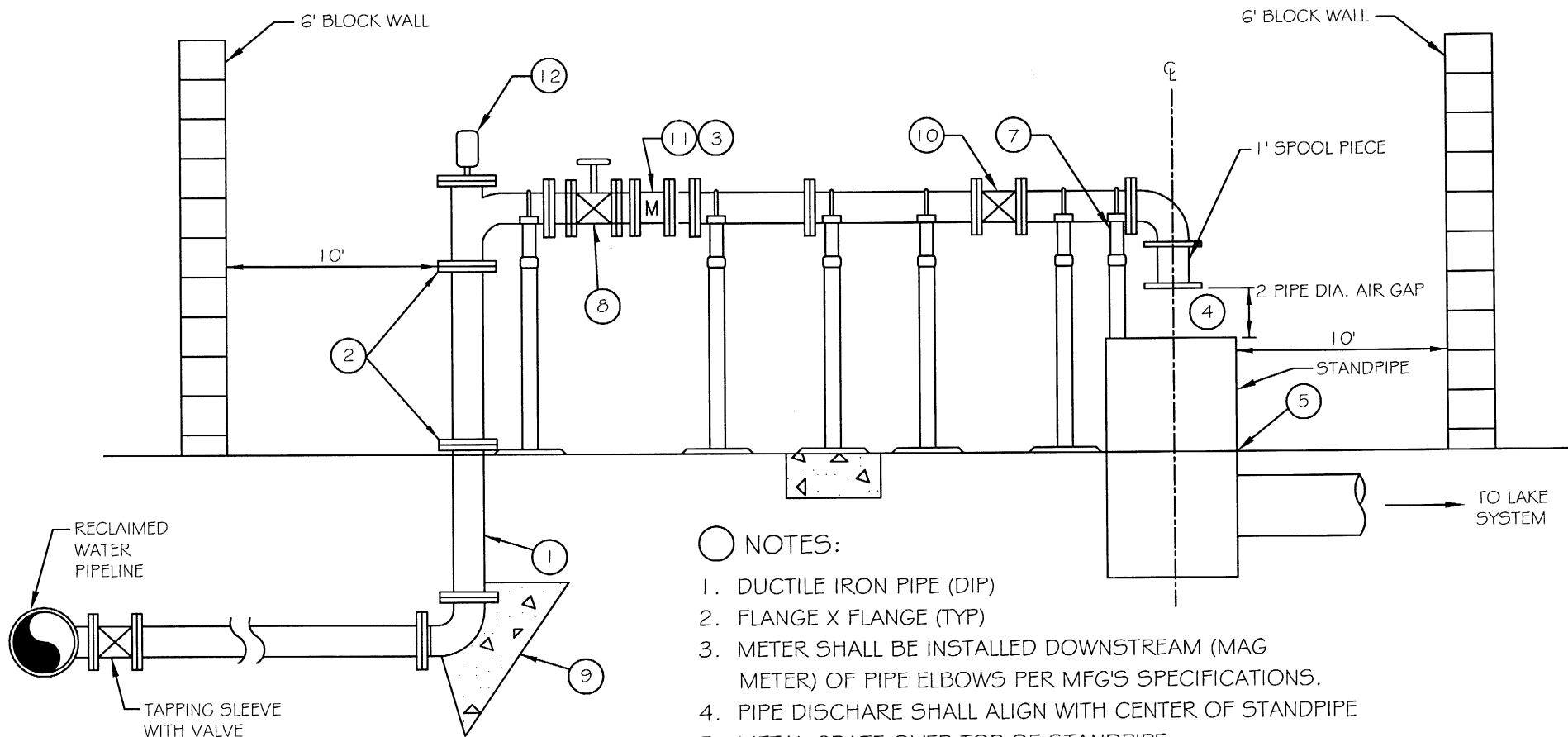


CITY OF
CHANDLER
STANDARD
DETAIL

**SMALL WATER USER (WITHOUT LAKE)
RECLAIMED WATER TURN-OUT**

APPROVED: *Elizabeth M. Smith*
CITY ENGINEER
DATE: *January 11, 2002*

DETAIL NO.
C-404
PAGE 2 OF 2



NOTES:

1. DUCTILE IRON PIPE (DIP)
2. FLANGE X FLANGE (TYP)
3. METER SHALL BE INSTALLED DOWNSTREAM (MAG METER) OF PIPE ELBOWS PER MFG'S SPECIFICATIONS.
4. PIPE DISCHARGE SHALL ALIGN WITH CENTER OF STANDPIPE
5. METAL GRATE OVER TOP OF STANDPIPE
6. PIPE SUPPORTS BOLTED TO 6 INCH CONCRETE FOOTING EVERY 5 FEET ON CENTER (TYP)
7. PROVIDE RIGID PIPE SUPPORT AT STANDPIPE
8. PROVIDE RESILIENT SEAT VALVE UPSTREAM FOR METER
9. PROVIDE THRUST BLOCK
10. CLA-VAL 150# FLG MODEL #631-G-O1BCNSYKC ELECTRONIC CONTROL VALVE
11. METER: MAGMETER SPARLING TIGER MAG IF POSSIBLE WITH PULSE OUTPUT
12. AIR RELIEF/VACUUM VALVE - WATERMAN 2" OR EQUAL

NOTES:

1. PROPERTY SHALL BE DEDICATED TO CITY AND KEYED TO CITY LOCK SYSTEM.
2. PROPERTY SHALL BE FENCED WITH 6 FOOT BLOCK WALL TO MATCH THE SURROUNDING WALL THEME.

DETAIL NO.

C- 405

NTS



CITY OF
CHANDLER
STANDARD
DETAIL

LARGE WATER USER (WITH LAKE) RECLAIMED WATER TURN-OUT

APPROVED

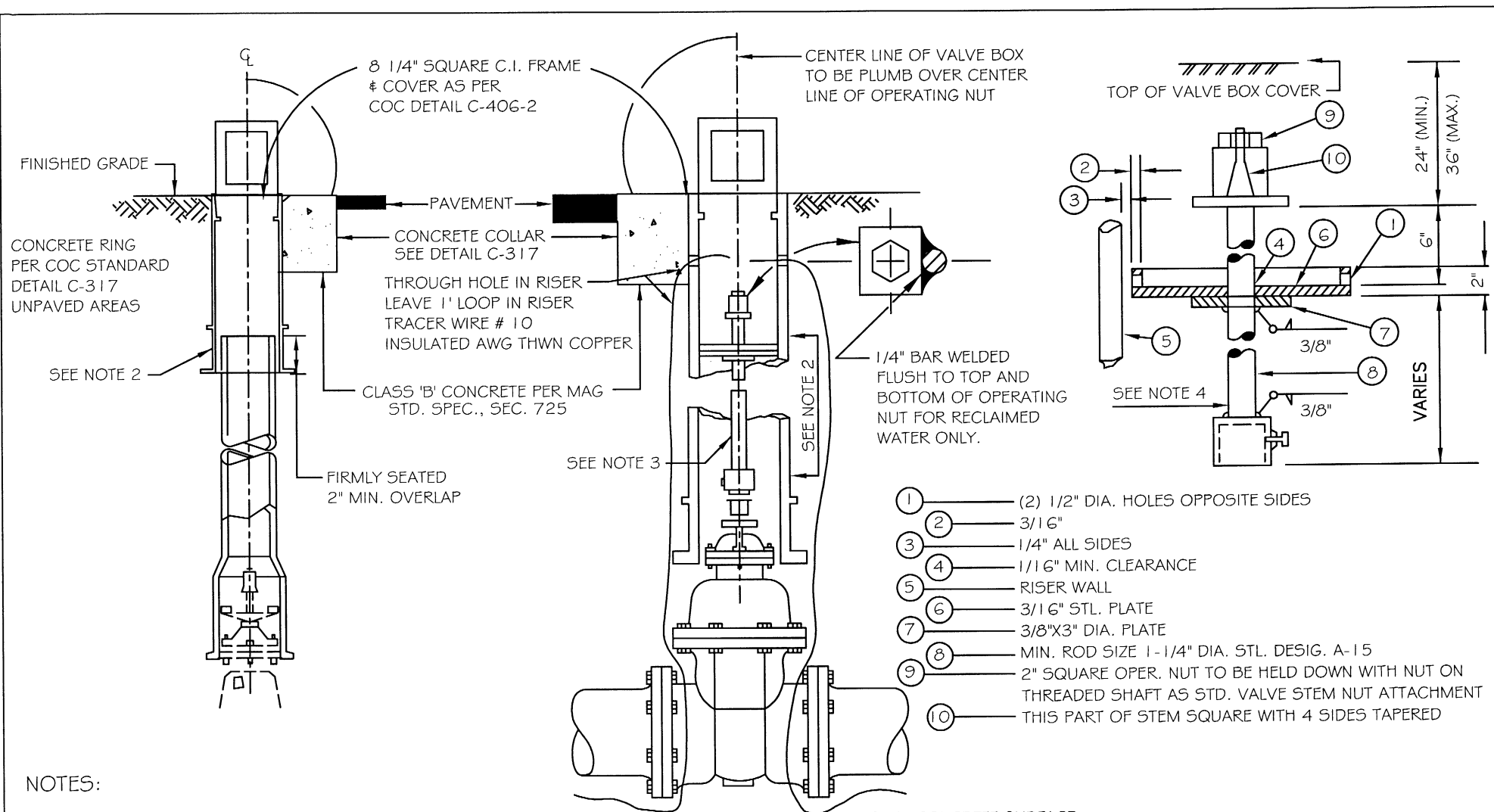
DATE

Elizabeth M. [Signature]
CITY ENGINEER
January 11, 2002

DETAIL NO.

C- 405

NTS



NOTES:

1. VALVE BOX SHALL BE ADJUSTED AND SET FLUSH TO THE FINISHED GRADE PRIOR TO PLACING OF THE FINISHED CONCRETE SURFACE.
2. USE SKIRTED LID PER COC STANDARD DETAIL C406-2
3. EXTENSION STEM WITH SQUARE SOCKET TO FIT 2" SQUARE VALVE NUT. EXTENSION TO VALVE STEMS REQUIRED ON ALL VALVES INSTALLED WHERE OPERATING NUT IS OVER 5' BELOW SURFACE. LENGTH TO FIT EACH INSTALLATION. OPERATING NUT TO BE HELD ON TOP OF EXTENSION WITH STOP NUT.
4. STEM PAINTING: ALL STEEL TO HAVE PRIME COAT OF PAINT NO. 1-D AND ONE HEAVY APPLICATION (FINISH COAT) OF PAINT NO. 9 AS PER MAG STANDARD SPECIFICATIONS SEC. 790.
5. ALL BACKFILL MATERIAL PLACED AS PART OF THE FINAL VALVE BOX ADJUSTMENT SHALL BE A.B.C. 1-SACK SLURRY AS PER COC STANDARD SPECIFICATION 4.

C-406
REPLACES
51A

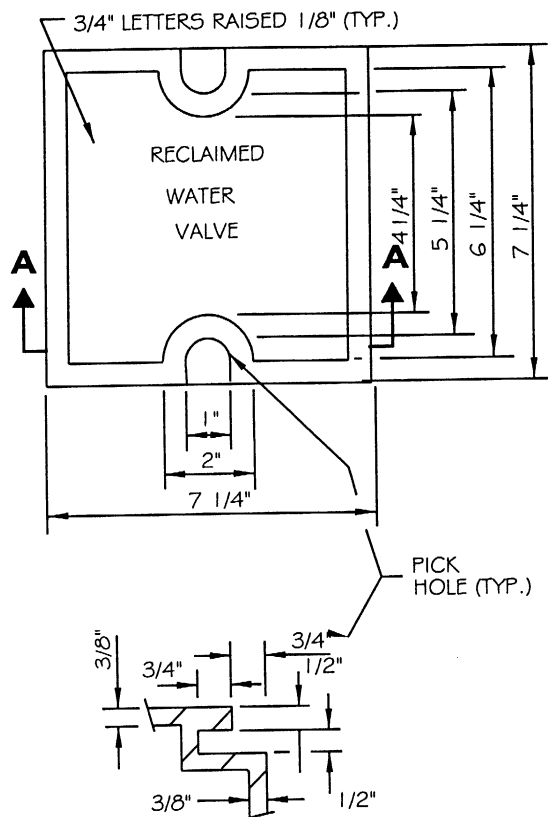


CITY OF
CHANDLER
STANDARD
DETAIL

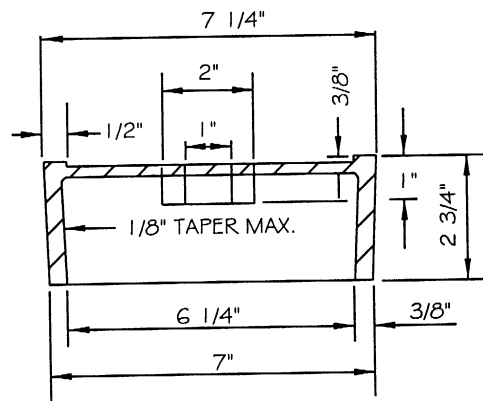
VALVE BOX INSTALLATION **(RECLAIMED WATER)**

APPROVED: *Elizabeth H. [Signature]*
CITY ENGINEER
DATE: *January 11, 2002*

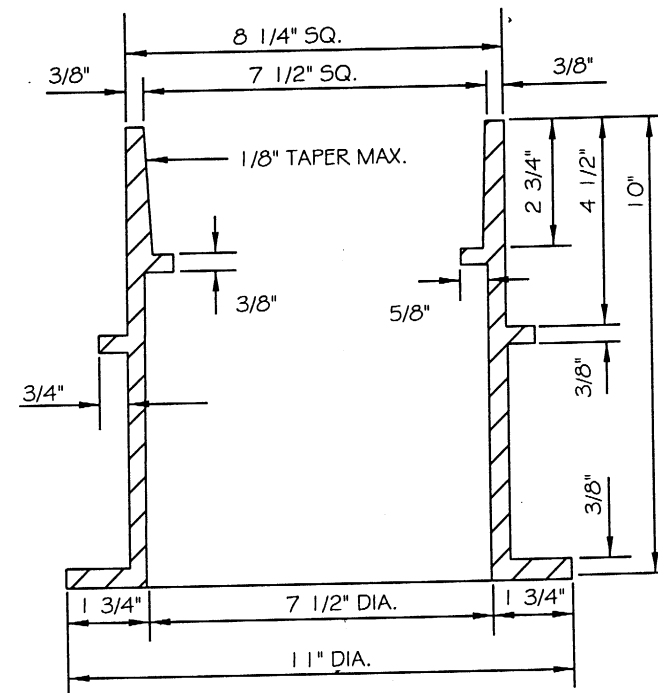
DETAIL NO.
C- 406
PAGE 1 OF 2



SECTION



SECTION A - A COVER



SECTION VALVE BOX

NOTES:

1. ALL MATERIAL SHALL BE CAST IRON PER ASTM. A-48, CLASS 30 B.
2. THE SURFACES OF THE COVER AND BOX WHICH COME IN CONTACT WITH EACH OTHER MUST BE SMOOTH AND FREE OF ALL CASTING RIDGES AND BURRS TO PROVIDE A SNUG FIT.
3. THE VALVE BOX SHALL HAVE A ROUND BOTTOM TO ACCOMMODATE RISER PIPE. THE TOP OF THE VALVE BOX SHALL BE SQUARE.
4. THE LID AND INSIDE AND OUTSIDE OF THE RISER PIPE SHALL BE COLORED PURPLE. COLOR MAY BE INCORPORATED INTO PIPE DURING MANUFACTURE OR PAINTED ONTO PIPE SURFACE. WHEN PAINTED THE PAINT SHALL BE SEYMOUR SAFETY PURPLE.
5. LETTERING SHALL BE RESTRICTED TO THAT SHOWN ON THE VALVE BOX COVER.

DETAIL NO.

C- 406



CITY OF
CHANDLER
STANDARD
DETAIL

VALVE BOX INSTALLATION (RECLAIMED WATER)

APPROVED:

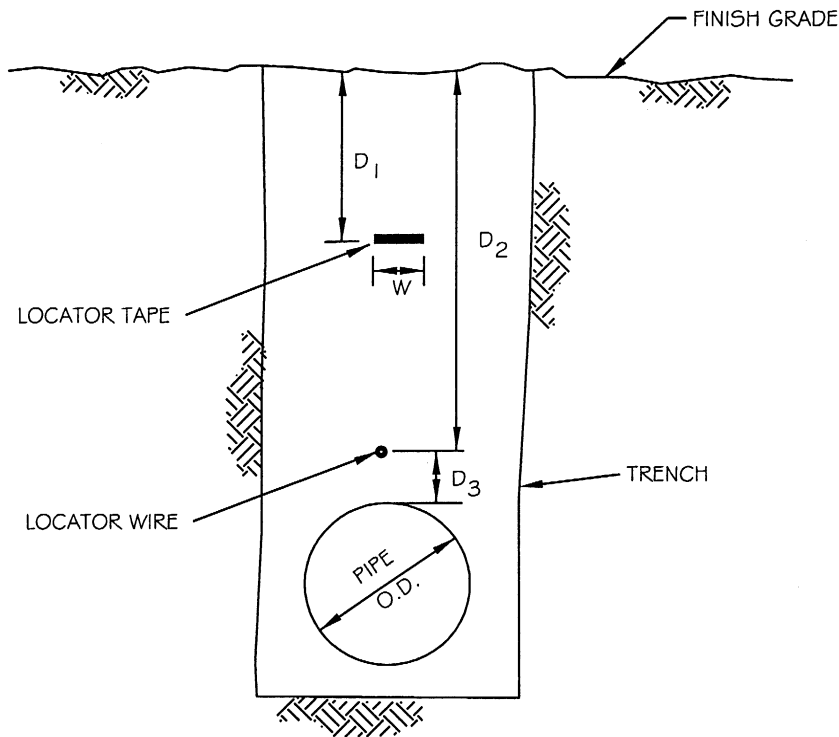
DATE:

B. D. Tatham
CITY ENGINEER
11-19-99

DETAIL NO.

C- 406

PAGE 2 OF 2



NOTES:

1. LOCATOR TAPE AND LOCATOR WIRE SHALL BE INSTALLED ON ALL POTABLE AND RECLAIMED WATER LINES FOR ALL PIPE MATERIALS AND SIZES 4" AND LARGER
2. LOCATOR TAPE SHALL BE PER MAG STD. SPEC. SEC. 616.4, EXCEPT AS MODIFIED HEREON.
3. LOCATOR WIRE SHALL BE BARE COPPER WIRE, 14 GAUGE.
4. TAPE MARKING SHALL BE PER MAG STD. SPEC. SEC. 616.3, EXCEPT AS MODIFIED HEREON.
5. D_1 TO BE 24"
6. D_3 TO BE 12", HOWEVER, ADJUST D_3 , AS NECESSARY, SO THAT D_2 IS NEVER GREATER THAN 48".
7. LOCATOR WIRE IS TO ORIGINATE/TERMINATE AT VALVE BOXES AND SECURED TO WALL OF VALVE BOX NO MORE THAN 12" BELOW COVER.

LOCATOR TAPE COLOR AND MARKING SCHEDULE

PIPELINE USE	W	COLOR	PRINTED MESSAGE
RECLAIMED WATER	MAG SPEC 616.4	MAG SPEC 616.3	MAG SPEC 616.3
POTABLE WATER	MAG SPEC 616.4	SOLID COLUMBIA BLUE	CAUTION POTABLE WATER LINE

C-408



CITY OF
CHANDLER
STANDARD
DETAIL

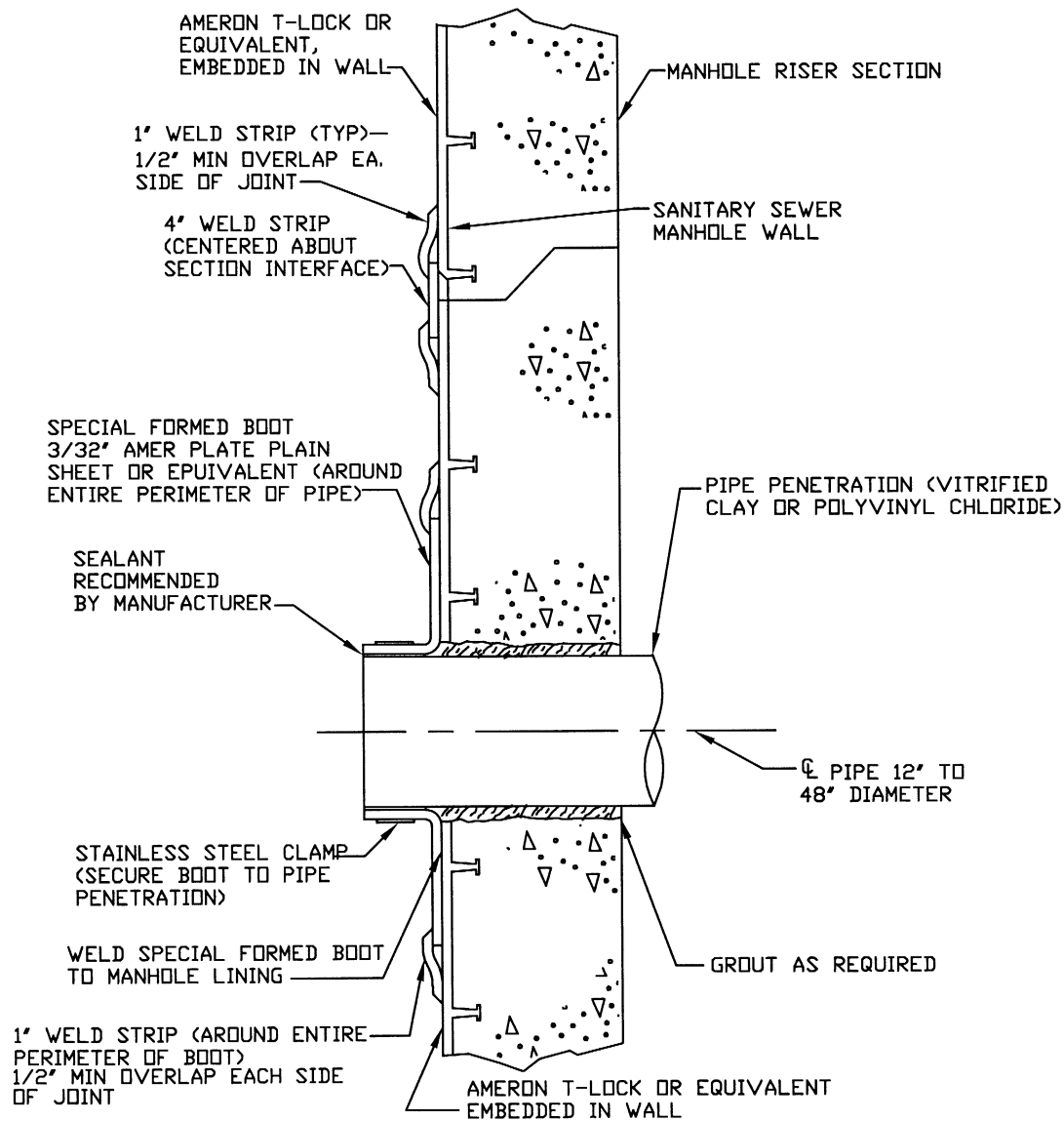
PIPE LOCATOR TAPE & WIRE

APPROVED: *Elizabeth A. Smith*
CITY ENGINEER
DATE: September 14, 2000

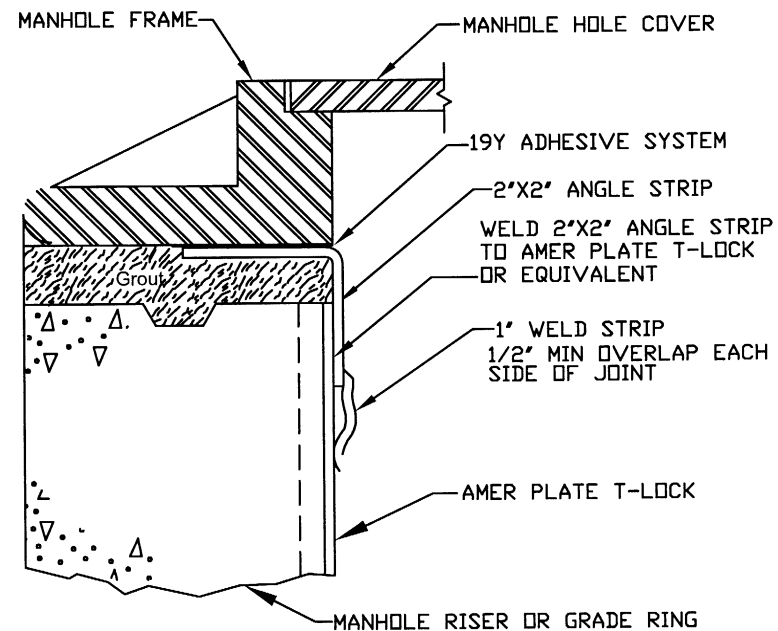
DETAIL NO.

C-408

NTS



PIPE PENETRATION DETAIL



NOTE:
2' X 2' ANGLE STRIP TO BE ATTACHED TO MANHOLE FRAME USING 19Y ADHESIVE PRIOR TO SETTING FRAME.

MANHOLE FRAME TERMINATION DETAIL

NOTE:
ALL FIELD JOINTS FOR T-LOCK LINED MANHOLE SECTIONS SHALL BE TYPE P-1 JOINTS WITH 4' WELD STRIP WITH 2-1' WELD STRIPS SECURING THE JOINT STRIP IN PLACE.

DETAIL NO.
C-409
NTS



CITY OF
CHANDLER
STANDARD
DETAIL

**PIPE PENETRATION AND MANHOLE
FRAME TERMINATION DETAIL**

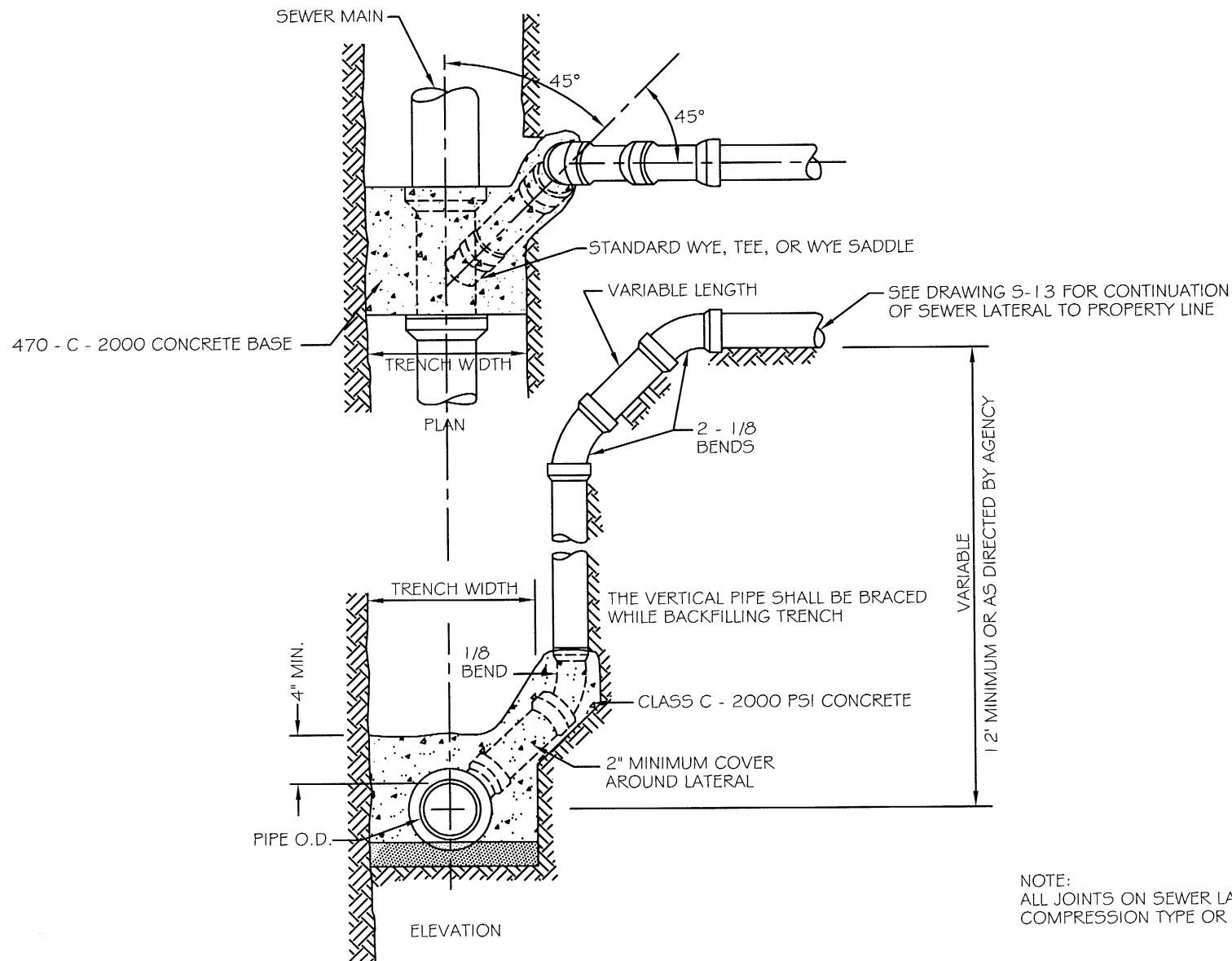
APPROVED:

DATE:

Elizabeth H. [Signature]
CITY ENGINEER
January 11, 2002

DETAIL NO.

C-409
NTS



NOTE:
ALL JOINTS ON SEWER LATERAL PIPE SHALL BE
COMPRESSION TYPE OR APPROVED SOLVENT WELD.

DETAIL NO.
C-410
NTS



CITY OF
CHANDLER
STANDARD
DETAIL

DEEP CUT HOUSE CONNECTION (SEWER LATERAL)

APPROVED: *Elizabeth Wilson*
CITY ENGINEER
DATE: *January 11, 2002*

DETAIL NO.
C-410
NTS